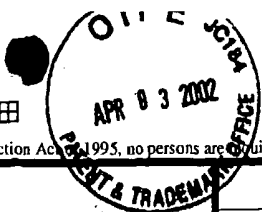


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of

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Application Number	10/027,593
Filing Date	October 25, 2001
First Named Inventor	Collins, D.A. <i>et al.</i>
Group Art Unit	1614
Examiner Name	N/A
Attorney Docket Number	07959.105022 (COP1008 US)

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		Number	Kind Code ² (if known)			
123	AA	3,936,440		Nath	02-03-1976	
	AB	3,981,863		Niswender <i>et al.</i>	09-21-1976	
	AC	4,209,614		Bernstein <i>et al.</i>	06-24-1980	
	AD	4,279,859		Gutcho <i>et al.</i>	07-21-1981	
	AE	4,283,342		Yolles	08-11-1981	
	AF	4,301,140		Frank <i>et al.</i>	11-17-1981	
	AG	4,465,775		Houts	08-14-1984	
	AH	5,308,606		Wilson <i>et al.</i>	05-03-1994	
	AI	5,405,839		Toraya <i>et al.</i>	04-11-1995	
	AJ	5,428,023		Russell-Jones <i>et al.</i>	06-27-1995	
	AK	5,449,720		Russell-Jones <i>et al.</i>	09-12-1995	
	AL	5,514,695		Bergeron	05-07-1996	
	AM	5,548,064		Russell-Jones <i>et al.</i>	08-20-1996	
	AN	5,574,018		Habberfield <i>et al.</i>	11-12-1996	
	AO	5,589,463		Russell-Jones <i>et al.</i>	12-31-1996	
	AP	5,608,060		Axworthy <i>et al.</i>	03-04-1997	
	AQ	5,739,313		Collins <i>et al.</i>	04-14-1998	
	AR	5,807,832		Russell-Jones <i>et al.</i>	09-15-1998	
	AS	5,840,880		Morgan, Jr. <i>et al.</i>	11-24-1998	
	AT	5,869,465		Morgan, Jr. <i>et al.</i>	02-09-1999	
	AU	5,869,466		Russell-Jones <i>et al.</i>	02-09-1999	
120	AV	5,936,082		Bauer	08-10-1999	
	AW	6,004,533		Collins <i>et al.</i>	12-21-1999	
	AX	6,083,966		Bergeron, Jr.	07-04-2000	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet **2** of **3**

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Application Number **10/027,593**
Filing Date **October 25, 2001**
First Named Inventor **Collins, D.A. et al.**
Group Art Unit **1614**
Examiner Name **N/A**
Attorney Docket Number **07959.105022 (COP1008)**

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(P)	BA	6,096,290		Collins et al.	08-01-2000	

FOREIGN PATENT DOCUMENTS

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		Office ³	Number	Kind Code ² (if known)				
(P)	BB	PCT	97/18231		Collins et al.	22-05-1997		
(P)	BC	PCT	98/08859		Grissom et al.	05-03-1998		
(P)	BD	PCT	99/65930		Russell-Jones et al.	23-12-1999		
(P)	BE	DE	1,811,518		Zumstein et al.	10-07-1969		

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(P)	BF	ALLEN, R.H., et al. "Isolation of Gastric Vitamin B ₁₂ -binding Proteins Using Affinity Chromatography." <i>J. Biol Chem.</i> 248(10):3660-3669, May 25, 1973.	
	BG	ALLEN, R.H., et al. "Isolation of Vitamin B ₁₂ -binding Proteins Using Affinity Chromatography." <i>J. Biol Chem.</i> 247(23):7695-7701, December 10, 1972.	
	BH	ANTON, D.L., et al. "Carbon-13 Nuclear Magnetic Resonance Studies of the Monocarboxylic Acids of Cyanocobalamin. Assignments of the B-, D-, and E-Monocarboxylic Acids." <i>J. Am. Chem. Soc.</i> 102(7):2215-2219, March 26, 1980.	
(P)	BI	BERNHAEUER, K., et al. "Zur Chemie und Biochemie der Corrinioide." <i>Biochem. Z.</i> , 344:289-309, 1966.	

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	CA	BOUCHAUDON, J., et al. "Daunomycin derivatives." <i>Chemical Abstracts</i> . 71(91866):440, 1969.	
	CB	COLLINS, D.A., et al. "Transcobalamin II Receptor Imaging via Radiolabeled Diethylene-Triaminepentaacetate Cobalamin Analogs." <i>J. Nucl. Med.</i> , 38, 717-723 (1997).	
	CC	COLLINS, D.A., et al. "Tumor Imaging Via Indium 111-Labeled DTPA-Adenosylcobalamin." <i>Mayo Clinic Proc.</i> 74:687-691, 1999.	
	CD	ELLENBOGEN, L., "Absorption and Transport of Cobalamin: Intrinsic Factor and the Transcobalamins." <i>Cobalamin: Biochem. and Pathophysiol.</i> . Babior, ed., Wiley, N.Y. (1975) Chapter 5.	
	CE	HOGENKAMP, H.P.C. et al. "Carbon-13 Nuclear Magnetic Resonance Studies of Adenosylcobalamin and Alkylcorrinoids, Selectively Enriched with Carbon-13." <i>Biochemistry</i> . 14(16):3707-3714, 1975.	
	CF	HOGENKAMP, H.P.C. "Chemical synthesis and properties of analogs of adenosylcobalamin." <i>Biochemistry</i> . 13(13):2736-2740, 1974.	
	CG	HOGENKAMP, H.P.C. et al. "Synthesis and Characterization of nido-Carborane-Cobalamin Conjugates." <i>Nucl. Med. & Biol.</i> 27:89-92, 2000.	
	CH	JACOBSEN, D.W., et al. "Rapid Purification of Cobalamin-Binding Proteins Using Immobilized Aminopropylcobalamin." <i>Anal. Biochem.</i> 113:164-171, 1981.	
	CI	KIKUGAWA, K. et al. "Direct Halogenation of Sugar Moiety of Nucleosides." <i>Tetrahedron Lett.</i> No. 2:87-90, 1971.	
	CJ	NEXO, E. "Cobalamin Binding Proteins." <i>Vitamin B12 and B12-proteins</i> . eds. Krantler, B., et al.; Wiley & Sons, Ltd. 461-475.	
	CK	TORAYA, T., et al. "Preparation, Properties and Biological Activities of Succinyl Derivatives of Vitamin B12." <i>Bioinorg. Chem.</i> 4:245-255, 1975.	

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			Application Number	10/027,593	
			Filing Date	October 25, 2001	
			First Named Inventor	Collins, D.A. et al.	
			Group Art Unit	N/A	
			Examiner Name	N/A	
			Attorney Docket Number	COP 1008 US	
Sheet	1	of	1		

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		Office ³	Number	Kind Code ² (if known)				
		WO	96/04016		Amgen Inc.	15-02-1996		
		WO	94/27641		BioTech Australia	08-12-1994		
		WO	00/45857		Schering	10-08-2000		
		WO	02/42318		Collins	30 May 2002		
		WO	01/92288		Collins	06-12-2001		

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